ATD-10503
Angle Grinder
Instruction Manual

Technical Data

Model: ATD10503
Rated voltage frequency: AC120V 60Hz
Input power: 750W
No-load speed: 11,000 RPM
Wheel: 4.5”
Arbor size: 5/8”-11 UNC
Approximate Weight: 2.5KGS (excluding packaging)

Safety Instructions

Warning: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following.
Read all these instructions before operating this product and save these instructions.

Keep work area clean
Cluttered areas and benches trigger accidents.
Do not expose power tools to rain. Do not use power tools if damp or wet locations. Keep work area well lit. Do not use power tools where there is risk of fire or explosion.
Keep children and observers away from work area
Do not let observers touch the tool or extension cord when in use. When not in use, tools should be stored in a dry, secure area, out of reach of children.
Do not force the tool
It will do the job better and safer at the rate for which it was intended. (See operating instructions.)
Use the right tool
Do not force small tools or attachments to perform beyond the manufacturers specifications. Do not use tools for purposes not intended; for example, do not use mild steel grinding wheels on aluminum or masonry.
Dress properly
Do not wear loose clothing or jewelry; they can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
Wear safety glasses
Also use face shields and/or dust masks if the cutting operation is dusty.
Connect dust extraction equipment
If dust extraction devices are provided, ensure that they are connected and functioning properly.
Do not abuse the cord
Never carry the tool by the cord or yank it to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.
Secure work
Use clamps or a vice to hold the work. It is safer than using your

hand and it frees both hands to operate the tool.

Do not strain to reach the work area

Keep proper footing and balance at all times.

Maintain tools with care

Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubrication and changing accessories. Inspect tool cord periodically, and if damaged, have it repaired by an authorized service facility. Inspect extension cords periodically and replace, if damaged. Keep handles dry, clean and free from oil and grease.

Disconnect tools when not in use

Unplug the cord from the electrical socket when not in use, before servicing, and when changing accessories such as wheels and guards.

Remove adjusting keys and wrenches

Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

Avoid unintentional starting

Do not carry a plugged-in tool with a finger on the switch. Be sure switch is off when plugging in.

Use outdoor extension leads

When tool is used outdoors, use only extension cords intended for outdoor use.

Stay alert

Watch what you are doing. Use common sense. Do not operate tool when you are tired.

Check for damaged parts

Before every use of the tool, check for damaged parts carefully to determine that the tool will operate properly and perform its intended function. Check for alignment and freedom of movement in moving parts. Do not use if there is any breakage, slow moving parts or any other conditions that may hinder its operation. Do not use the tool if the switch does not function properly. Guards, malfunctioning switches, or other malfunctioning parts, should be properly repaired or replaced by an authorized service center unless otherwise indicated in this instruction manual.

Warning

- The use of any accessory or attachment, other than those recommended in this instruction manual, may present a risk of personal injury.
- This electric tool is in compliance with relevant safety requirements.
- Check that the speed marked on the wheel is equal to or greater than the rated speed of the grinder.
- Be sure that the wheel dimensions are compatible with the grinder and that the wheel fits the spindle
- Abrasive wheels should be stored and handled with care and in accordance with manufacturer’s instructions.
- Inspect grinding wheel before use; do not use chipped, cracked or otherwise damaged products.
- Be sure that mounted wheels are fitted in accordance with the

manufacturer’s instructions

- Be sure that the abrasive product is correctly mounted and tightened before use. Run the tool at no-load for 30 seconds in a safe position. Stop immediately if there is considerable vibration or if other problems are detected. If this condition occurs, check the machine to determine the cause and, if necessary, change the abrasive wheel.
- Do not use separate reducing bushings or adaptors to adapt large holes in abrasive wheels.
- Be sure that the work piece is properly supported
- Do not use grinding or cut-off wheels for side grinding; they could explode!
- Take care that sparks resulting from use do not create hazards. Keep observers and flammables well away from work area.
- Always use protective safety glasses and proper hearing protection. Use other personal protective equipment such as gloves, an apron, a face shield and/or a helmet when necessary.
- Since there is no brake mechanism in the tool, the wheel will continue to rotate after the tool is switched off.

ATD-10503

ORDERING PART#	ITEM#	PART DESCRIPTION
PRT10503-01	1	FLANGE, OUTER
PRT10503-02	2	GRINDING WHEEL
PRT10503-03	3	FLANGE, INNER
PRT10503-04	4	WHEEL GUARD
PRT10503-05	5	SCREW, M4×14
PRT10503-06	6	SPRING WASHER 4
PRT10503-07	7	FRONT COVER
PRT10503-08	8	BALL BEARING, 6201-2Z
PRT10503-09	9	CLAMP, BEARING
PRT10503-10	10	FLAT WASHER
PRT10503-11	11	SPRING WASHER
PRT10503-12	12	SCREW M4×10
PRT10503-13	13	OUTPUT SHAFT
PRT10503-14	14	SIDE HANDLE
PRT10503-15	15	SCREW, ST4.2X25
PRT10503-16	16	SPRING, PIN
PRT10503-17	17	CAP, PIN
PRT10503-18	18	REDUCING GEAR BOX
PRT10503-19	19	O-RING
PRT10503-20	20	WIND GUIDE
PRT10503-21	21	PINION GEAR
PRT10503-22	22	BALL BEARING, 608-2Z
PRT10503-23	23	KEY, 3×10
PRT10503-24	24	ARMATURE ASSY.
PRT10503-25	25	BALL BEARING, 607-2Z
PRT10503-26	26	BEARING HOLDER

ORDERING PART#	ITEM#	PART DESCRIPTION
PRT10503-27	27	BAFFLE
PRT10503-28	28	SCREW, ST4.2X70
PRT10503-29	29	STATOR
PRT10503-30	30	HOUSING, STATOR
PRT10503-31	31	NAME PLATE
PRT10503-32	32	BRUSH HOLDER
PRT10503-33	33	SCREW, ST2.9X8
PRT10503-34	34	BRUSHES, PAIR
PRT10503-35	35	DISK SPRING
PRT10503-39	39	REAR COVER
PRT10503-40	40	SCREW, ST4.2X14
PRT10503-41	41	SHEATH, CORD
PRT10503-42	42	POWER CORD
PRT10503-43	43	CLAMP, CORD
PRT10503-44	44	SCREW, ST4.2X14
PRT10503-45	45	SWITCH
PRT10503-46	46	PUSH ROD
PRT10503-47	47	SPRING, SWITCH
PRT10503-48	48	TRADING MARK
PRT10503-49	49	KNOB, SWITCH
PRT10503-50	50	LOCKING PIN
PRT10503-51	51	OIL-IMPERGNATED BEARINGS
PRT10503-52	52	RETAINING RING, 10
PRT10503-53	53	WAVE SPRING WASHER
PRT10503-54	54	LARGE GEAR
PRT10503-55	55	SPANNER